AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for use in delivering messages over a network, the method comprising:

- (a) receiving a network layer address of a first node at a first router on a first subnetwork, the first sub-network being topologically foreign with respect to the network layer address of the first node;
- (b) transmitting, by the first router, a message including sending the network layer address of the first node and the network layer address of the first router toward a first remote node at a second sub-network, the second sub-network being topologically foreign with respect to the network layer address of the first node;
- (c) receiving at the first router a message tunneled by the first remote node using the sent network layer address of the first router, the message tunneled by the first remote node in response to a message at the first remote node addressed to the first node;
- (d) de-tunneling the message tunneled toward the first router by the first remote node; and
 - (e) sending the de-tunneled message toward the first node;
- whereby (a) (e) proceed without requiring communication with any node on a subnetwork that is a topologically home sub-network with respect to the network layer address of the first node.
- 2. (Original) The method of claim 1, wherein an initial message sent from the first remote node toward the first node after the first node establishes communication with the first sub-network is not received by any node on a sub-network that is a topologically home sub-network with respect to the network layer address of the first node.
- 3. (Original) The method of claim 1, wherein (a) (e) proceed without communication with any node on the sub-network that is a topologically home sub-network with respect to the network layer address of the first node.
- 4. (Original) The method of claim 1, wherein the network layer address of the first node comprises an Internet Protocol (IP) address.

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5. (Original) The method of claim 1,

further comprising determining a link layer address of the first node; and wherein sending the de-tunneled message to the first node comprises sending the detunneled message using the determined link layer address.

- 6. (Original) The method of claim 1, wherein the first node comprises a wireless node.
- 7. (Original) The method of claim 1, wherein the first router comprises a foreign agent configured to communicate with a home agent on the first node's topologically home subnetwork.
 - 8. (Original) The method of claim 1, further comprising:
- (f) sending the network layer address of the first node and the network layer address of the first router toward a second remote node at a third sub-network, the third sub-network being topologically foreign with respect to the network layer address of the first node;
- (g) receiving at the first router a message tunneled by the second remote node using the sent network layer address of the first router, the message being tunneled in response to a message at the second remote node addressed to the first node;
 - (h) de-tunneling the message tunneled to the first router by the second remote node; and
 - (i) sending the de-tunneled message toward the first node;
- whereby (f) (i) proceed without requiring communication with any node on a subnetwork that is a topologically home sub-network with respect to the network layer address of the first node.
- 9. (Currently Amended) A computer program product, disposed on a computer readable medium, for use in delivering messages over a network, the computer program including instructions for causing a processor to:
- (a) receive a network layer address of a first node at a first router on a first sub-network, the first sub-network being topologically foreign with respect to the network layer address of the first node;

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(b) <u>transmit</u>, by the first router, a message including sending the network layer address of the first node and the network layer address of the first router toward a first remote node at a second sub-network, the second sub-network being topologically foreign with respect to the network layer address of the first node;

- (c) receive at the first router a message tunneled by the first remote node using the sent network layer address of the first router, the message tunneled by the first remote node in response to a message at the first remote node addressed to the first node;
 - (d) de-tunnel the message tunneled toward the first router by the first remote node; and
 - (e) send the de-tunneled message toward the first node;

whereby (a) - (e) proceed without requiring communication with any node on a subnetwork that is a topologically home sub-network with respect to the network layer address of the first node.

- 10. (Original) The computer program of claim 9, wherein an initial message sent from the first remote node toward the first node after the first node establishes communication with the first sub-network is not received by any node on a sub-network that is a topologically home sub-network with respect to the network layer address of the first node.
- 11. (Original) The computer program of claim 9, wherein (a) (e) proceed without communication with any node on the sub-network that is a topologically home sub-network with respect to the network layer address of the first node.
- 12. (Original) The computer program of claim 9, wherein the network layer address of the first node comprises an Internet Protocol (IP) address.
 - 13. (Original) The computer program of claim 9,

further comprising instructions for causing the processor to determine a link layer address of the first node; and

wherein the instructions for causing the processor to send the de-tunneled message to the first node comprise instructions for causing the processor to send the de-tunneled message using the determined link layer address.

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14. (Original) The computer program of claim 9, wherein the first node comprises a wireless node.

- 15. (Original) The computer program of claim 9, wherein the first router comprises a foreign agent configured to communicate with a home agent on the first node's topologically home sub-network.
- 16. (Original) The computer program of claim 9, further including instructions for causing the processor to:
- (f) send the network layer address of the first node and the network layer address of the first router toward a second remote node at a third sub-network, the third sub-network being topologically foreign with respect to the network layer address of the first node;
- (g) receive at the first router a message tunneled by the second remote node using the sent network layer address of the first router, the message being tunneled in response to a message at the second remote node addressed to the first node;
 - (h) de-tunnel the message tunneled to the first router by the second remote node; and
 - (i) send the de-tunneled message toward the first node;

whereby (f) - (i) proceed without requiring communication with any node on a subnetwork that is a topologically home sub-network with respect to the network layer address of the first node.

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